

LISTING OF CLAIMSIn the Claims:

Please amend the claims in the below-indicated manner. This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently Amended) A solder plating system, comprising:
a solder plating machine;
a wash fluid supply system for supplying wash fluid to the solder plating machine;
a pressure sensor for monitoring the pressure of wash fluid supplied by the wash fluid supply system; and
a switch control system for automatically switching an alarm based on one or more readings supplied by the pressure sensor and a plurality of rules that detect and/or predict a problem with the wash fluid supply.
2. (Original) The solder plating system of claim 1, wherein the switch control system automatically shuts down the solder plating machine based on one or more readings supplied by the pressure sensor.
3. (Original) The solder plating system of claim 1, wherein the switch control system activates an alarm when the wash fluid pressure drops below a first value.
4. (Original) The solder plating system of claim 3, wherein the switch control system automatically shuts down the solder plating machine when the wash fluid pressure drops below a second value.
5. (Original) The solder plating system of claim 1, wherein the switch control system includes a memory that retains readings supplied by the pressure sensor.

6. (Original) The solder plating system of claim 5, wherein the switch control system further comprises an expert system.

7. (Original) The solder plating system of claim 5, wherein the switch control system automatically shuts down the solder plating machine based on a reading supplied by the pressure sensor together with one or more retained readings.

8. (Cancelled)

9. (Cancelled)

10. (Currently Amended) A method of operating a solder plating system, comprising:
supplying wash fluid for a solder plating machine;
obtaining pressure readings for the wash fluid supplied to the solder plating machine; and
automatically activating an alarm based on one or more of the readings and a plurality of rules that detect and/or predict a problem with the wash fluid supply.

11. (Original) The method of claim 10, wherein automatically activating the alarm is based on a reading that indicates the pressure is below a threshold value.

12. (Original) The method of claim 10, further comprising retaining readings relating to the pressure for the wash fluid and wherein automatically activating the alarm depends in part on retained readings.

13. (Original) The method of claim 10, wherein automatically activating an alarm based on one or more of the readings comprises using an expert system to decide whether to activate the alarm

14. (Currently Amended) A method of operating a solder plating system, comprising:
supplying wash fluid for the solder plating machine;
obtaining readings relating to a pressure for the wash fluid supplied to the solder plating machine; and
automatically shutting down the solder plating machine based on one or more of the readings and a plurality of rules that detect and/or predict a problem with the wash fluid supply.
15. (Original) The method of claim 14, wherein automatically shutting down the solder plating machine is based on a reading that indicates the pressure is below a threshold value
16. (Original) The method of claim 14, wherein automatically shutting down the solder plating machine based on one or more of the readings comprises using an expert system to decide whether to shut down the solder plating machine.
17. (New) A solder plating system, comprising:
a solder plating machine;
a wash fluid supply system for supplying wash fluid to the solder plating machine;
a pressure sensor for monitoring the pressure of wash fluid supplied by the wash fluid supply system; and
a switch control system including an adaptive system for triggering an alarm and/or shutting down the solder plating machine based at least upon one or more readings supplied by the pressure sensor.
18. (New) The system of claim 17, wherein the adaptive system is an expert system.

19. (New) The system of claim 17, wherein the adaptive system utilizes a neural network.